

# VHF/UHF AMATEUR RADIO EQUIPMENT

C4FM Digital Transceivers
C4FM Digital Repeater
FM Transceivers





# Innovation for the Future

The YAESU System Fusion-II leads the way for the Ham Radio digital systems; It provides total integration and compatibility of Digital and Conventional FM communications.

# Fusion of C4FM Digital and Conventional FM

System Fusion-II joins C4FM digital and conventional FM communication into a single, multi-functional integrated system.

With the revolutionary System Fusion-II, users no longer need to choose between the Digital Mode or conventional FM; Use the system best suited for the operations, Also, users can communicate freely between Digital and conventional FM stations,

# AMS (Automatic Mode Select)

Thanks to the revolutionary AMS functions, a received signal is instantly recognized as C4FM digital or conventional FM. The transceiver switches operating modes to match the received signal. Even when operating in C4FM digital mode, the transceiver automatically switches to communicate instantly with a received FM station, This unique AMS function enables hasale-free operation by removing the need to manually switch between the communication modes.



Clear and Crisp Vaice Technolog

# Advantages of C4FM digital

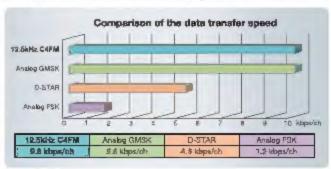
# Excellent Audio Quality and Reliable Communications

C4FM digital modulation has better BER (Bit Error Rate) characteristics when compared to other Digital modulation, and quarantees reliable long distance communication. The YAESU C4FM digital clear voice technology uses a 12.5kHz bandwidth which permits high quality voice communications,

# 9600 bps high speed data using 12.5kHz bandwidth

The big advantage of digital communication methods is the ability to convey large amounts of data. C4FM

digital attains 9600 bps data transmission speads by using a 12.5kHz frequency bandwidth. It achieves digital advantages, such as the data transmission of a snepshot, or high-quality voice communication etc. 12.5kHz C4FM modulation is excellent for digital communications, and provides for continued development of amateur-radio communications without sacrificing other valued features.



# FM Friendly Digital Functions Enable Cross-Mode communication

Until now, FM repealers were only used for conventional FM communication; and digital repeaters were only used for digital communication. There has been no option for cross-communication in a single repeater. System Fusion-II enables interconnection between all users, even with different modes. This is made possible in System Fusion-II by AMS, The AMS function automatically recognizes the signal as a C4FM digital or a conventional FM signal, then the DR-2X retransmits the signal in the preset communication mode.





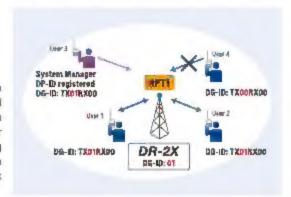
# Enhanced Digital Group ID (DG-ID) and Digital Personal ID (DP-ID) Features

# DG-ID Feature (Digital Group-ID)

Setting matching two-digit DG-ID numbers ("00" to "99") separately for Transmit and Receive, enables communications through designated linked DR-2X System Fusion-II digital repeaters. Setting the DG-ID of the DR-2X repeater to "00", permits the repeater to accept C4FM signals with any DG-ID setting and function as an Open Repeater.

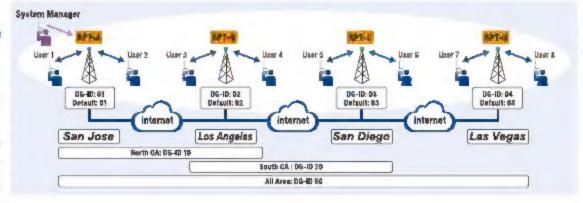
# DP-ID Feature (Bigital Personal-ID)

The DP-ID permits secure on-air control of the DR-2X Repeater settings. Changes may be limited to controlling stations that are preregistered in the DR-2X Repeater, Also, the DR-2X Digital Repeater may be accessed for emergency operation using an alternate uplink frequency. Consequently, the DR-2X repeater can give precedence to an uplink signal containing a preregistered DP-ID.



# Advanced IMRS (Internet-linked Multi-site Repeater System) Operation

When the optional LAN units (LAN-01A) are installed, an IMRS finternet-linked Multi-site Repeater System) network with multiple DR-2X Digital Repeaters may be configured. Up to 99 repeaters may be linked together via the Internet. Access and control of the linked repeaters, and groups of linked repeaters can be managed using the Digital Group ID (DG-ID) Feature

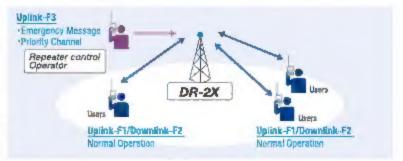


			RIFT-A	RPT-B	RIPT-C	RPT-E3
	LOCAL Name		San Justa	Los Arigelas	San Diego	Les Veges
	LOCAL DG-ID		01	02	03	Q4
	Dafaull DG-€		01	02	D3	04
	Group Nama	North GA				
	Group DC-ID	40				
Gan.ur	Group Nama	Bouth CA				
Broup	Group DC-ID	20				
	Group Name	Al Area				
	Group DG-ID	20				

RMRS (Internet-linked Multi-site Repeater System) Operating Illustration

# Dual Receive Feature provides Flexible Operation

The unique simultaneous Dual Receive Repeater DR-2X allows the control operator to assign an additional frequency for controlling the repeater, transmitting emergency messages, or simply a second up-link frequency. The control operator may also assign separate Downlink frequencies according to the Up-link frequencies.



Dual Receive Image

# WIRES-X Portable Digital Node Function

A WIRES-X portable digital node station may be easily established by setting the C4FM digital transceiver to "HRI mode" and connecting it with a PC. With this function, and an available internet connection, WIRES-X access via the Internet is possible, even from a location where a fixed WIRES-X node station is not available. A C4FM digital transceiver can be used as a node station transceiver without setting up an Ethernet port. This feature enables easy setup and WIRES-X operation from any location, such as a Hotel room, Airport, in a Vehicle or a Free Wi-Fi space, etc.

- \*WRES-X operation in the digital transceiver's HRI mode is only available in C4FM digital mode,
- \* Optional PC connection cable (SCU-19) is required for the FT2D PC connection,
- \* Supplied PC connection cable (SCU-20) is required for the FTM-400XD/FTM-100D PC connection,
- Digital transceivers that can operate in the HRI mode are the FT2D, FTM-400XD and the FTM-100D.

# Connection of WIRES-X Node or Room

In the digital transceiver HRI mode, a digital WIRES-X node station can be easily created to provide access to other node stations via the Internet. Also, a WIRES-X room may be joined for group communication.

# Connection of Club Repeater Network with DG-ID

By establishing the WIRES-X portable node station, you can easily connect to a DG-ID controlled IMBS Club Repeater network using the WIRES-X Node Station.

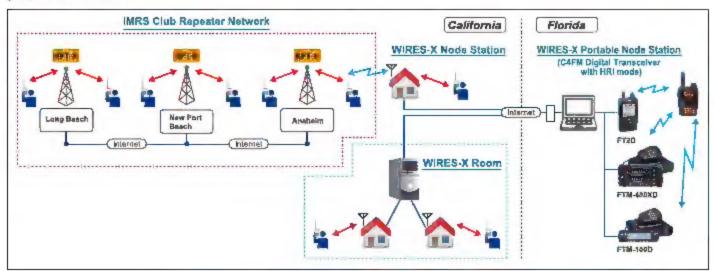


Illustration of WIRES-X operation via Portable digital Node Stations

# Three C4FM Digital Modes and the conventional FM Mode

Three System Fusion-II Digital Modes and the analog FM mode can be selected. In digital, effective utilization of the 12,5kHz bandwidth, makes possible combined high-quality voice communication and image data transmission and reception. Many new and unique information and communication functions are made possible.



# V/D mode (Voice/Data Simultaneous Communication Mode)

The digital voice signal is transmitted using one half of the bandwidth. Simultaneously the other half of the 12.5kHz bandwidth channel is used for error correction of the voice signal and for other data. The standard C4FM Digital mode provides the ideal balance of error correction and sound quality with the Digital Clear Voice technology developed for C4FM digital.

# Data FR mode (High Speed Data Communication Mode)

This high-speed data communication mode uses the full 12.5 kHz bandwidth for data communication. The transcelver automatically switches to Data FR mode when transmitting Snapshot pictures, and can be used to transmit large quantities of data at high speed.

# Voice FR mode (Voice Full Rate Mode)

This mode uses the full 12,5kHz bandwidth to transmit digital voice data. The increased amount of voice data permits high quality voice communication, providing superb sound quality for a "rag chew" with friends.

# Conventional FM mode

Analog FM is effective when weak signal strength causes audio drop out in the digital mode. The FM mode enables communication up to the borderline of the noise level. Also the use of established Yaesu low power circuit designs provides far less battery consumption than the digital mode.

# 144/430MHz Dual Band Dual Receive Heavy Duty C4FM/FM Digital Repeater



YAESU DR-2X is a C4FM digital/Conventional FM dual mode and dual-Receive capable repeater that covers the VHF and UHF amateur radio bands. DR-2X incorporates the use of conventional FM communication integrated with the C4FM digital communication through its unique AMS capability.







Supplied Accessories: AC cable (US, Asia only), DC cable, PC connection cable SCU-20, Rubber Feet (4)

# DR-2X Advanced Features

- Modulation Modes: C4FM Digital and Conventional FM
- AMS (Automatic Mode Select) function, permits automatic detection of the received C4FM digital or conventional FM signal
- Dual Receive Operation
- Optional IMRS (Internet-linked Multi-site Repeater System) enables expanded area coverage via the Internet
- Digital Group ID Feature supports convenient set-up of Groups and uncomplicated Group Operation
- User Friendly 3.5-Inch Full Color Touch Panel Display
- Extremely reliable, high RF Output Power: 50W / 20W / 5W
- Stable High-Power Output with Large Heat sink
- Commercial grade components for long-term reliable operation
- Emergency Operation: Supported by auto-switched backup battery power operation (US and Asian versions)
- Front panel microphone connector is provided for repeater transmitter testing and enables base station operation

# User Friendly Set-up (3.5-inch Full Color Touch Panel Display)



1 2 3 A |+ +|
4 5 6 8 X
7 8 9 C Space

# 0 0 D ENT



Setup screen

Frequency setting screen

DG-ID setting screen

# Advanced Operation

The rear panel Control VO port is connectable to the "5-COM 7330" repeater controller. This controller can manage up to three (3) DR-2X units, providing control of the programmable beep, the timer, access mode, and other features.



# Other Features

- Internal AC power supply (US, Asia)
- 19" Rack Mount Capable
- High Stability ±2.5ppm TCXQ
- . CTCSS and DCS Signaling
- ID announcement (Voice Mode: Regulres FVS-2)
- Base Station Operation
- TOT (Time Out Timer)
- · Firmware Updates



# Advanced C4FM Technology Opens up New Vistas for Amateur Radio The New Style Handheld Transceiver

C4FM/FM 144/430 MHz DUAL BAND 5W DIGITAL TRANSCEIVER

FT2DR:US, Asia and Australia FT2DE:Europe

(2200 mAh Lithium ion Battery SBR-14LI, Battery charger PA-48/SAD-18/SAD-16 (Depending on the transceiver version), USB Cable and Belt clip SHB-13 included)



# Easy Operation with Large Touch Panel Display

A major highlight of the transcelver's sleek design is the large display measuring 1.7 × 1.7 inch (43.2 × 43.2mm). With 160 x 160 dots and a bright white LED backlight, it presents a wealth of information in superb high resolution, Function keys, numeric keys. and setup menu items appear on the display as needed, allowing direct operation without guesswork, Additional functions may be operated with the knobs and keys on the front and side of the transcelver,



# FM friendly digital realized by AMS (Automatic Mode Select)

The Automatic Mode Select (AMS) function instantly solects the received signal mode,

# Sophisticated C4FM Digital Functions are Supported

# **Expanded Digital Group ID Features**

In the C4FM digital Mode, a Digital-Group-ID (DG-ID) can be set by each group member to facilitate communications between the specific group participants. The Group Monitor function automatically alerts users when group members are within communication range.

\* The DG-ID group operation has competibility only between the C4FM digital. Intersection that have the DG-D heaters, Myour C4FM portables or mobiles have not just updated for DG-D please update the Immers for the transceners boforo using the DG-EI feature

# Snapshot function

When the optional speaker microphone camera MH-85A11U is connected. you can easily take a snapshot, Captured images as well as received images can be viewed on. the screen.



## Smart Navigation Function

# Real-time navigation

Digital V/D Mode communicates the position and station information in the MISAC STATE simultaneously with the digitized audio. You can view the distance and direction of the other station in real time while communicating.



# Backtrack

This function allows navigation back to the departure point, or a point previously added to the GPS memory.

# Simultaneous C4FM/C4FM standby

The FT2DR/DE supports simultaneous C4FM Digital menitering for both the A Band and B Band, A digital signal received on either band takes priority of the transceiver operation. You can respond smoothly and swiftly to the digital communication, What's more, call sign and position information as well as other data can be received simultaneously on both bands,

Loud 700 mW audio output

Built-in High Sensitivity 66ch GPS Antenna

1200/9600 bps APRS® Data communication

Micro SD card slot

High-resolution band scope with fast display of up to 71 channels

Standard configuration includes high-capacity Lithium-Ion battery good for 12 hours of continuous operation

# Battery Operating Time (Approximately)

Bar	nd Mitode	PASETURA	1,041,653	Battery Tray FBA-196,894;
144M-z	Analogistade	6 hburs	12 hours	1dineurs
H4M-2	Dig IntiVisate	5 moves	10 hours	1Z hours
44041	Analog Made	5,5 haura	11 0520	1) hours
430MHz	Digital Visco	4,9 hours	9 hours	Ti hours

Duty Cycle based on Tx 6 sec., Rx 6 sec., Standby 48 sec., ( To Penny S Watts, Re audio outsit 10% (-E). Ballony care 7:5, Menerand Hadden and GPS function of I

One ating times may very depending an esercing conditions.

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	Sande Marathan wit Standar cares MH-85A510	Earpirece Microphone SSM-57A	 Microphone Adapter CT-44	Livian Beltery Pack (1100 mAh) FNB-101LI	Lilon Boltery Pack (2200 mAh) SBR-14LI	Li-ion Ballery (1800m/cv) SBR-24U	Charger SUB-11 779-45	Barrery Charger SAD-18 <sup>th</sup> SAD-11 <sup>th</sup>	Rapids Charger CD-41	Rapid Granger SBH-28	Jx'AA'Cell Batlery Tray FBA-39
F120											
FT-700						•					

<sup>1</sup> Depending on the transceiver version



# An Outstanding Choice Sophisticated Dual Band Digital Transceiver

C4FM/FM 144/430MHz Dual Band Digital Transceiver

FT-70D

FT-70DR: US, Asia and Australia

FT-70DE; Europe

(7.4V 1800mAh Lithium ion Battery SBR-24LI, Battery Charger SAD-18/SAD-11 (Depending on the transceiver version), USB Cable and Belt Clip included)



# C4FM Digital provides Excellent Audio Quality

Both conventional FM operation, and the advanced Yaesu C4FM Digital Mode are available. C4FM has better BER (Bit Error Rate) characteristics than other Digital modulation systems, and permits stable communications, C4FM digital modulation delivers exceptional audio quality.

# FM Friendly Digital Operation with AMS and Large Multi-Color LED Mode Indicator

Conventional FM users and Digital C4FM users can communicate through the magic of AMS (Automatic Mode Select), AMS automatically recognizes the received signal as C4FM Digital or conventional FM, and sets the transceiver to the appropriate

operating mode. The AMS function enables hassle-free operation by removing the necessity of manually switching between modes. The MODE indicator LEDs show the transmit/Receive mode at a glance.



Multi-colored LED Mode-Indicator

# Sophisticated Digital-Group-ID Operation

in the C4FM digital Mode, a Digital-Group-ID (DG-ID) can be set by each group member to facilitate communications between the specific group participants. The Group Monitor function automatically alerts users when group members are within communication range.



Digital-Group-ID

# LOUD 700mW Audio Output

Loud, clear, crisp audio is delivered by 700mW of audio power, and the large 32mm front speaker.

# Huge 1,105 Channel Memory

The FT-70D provides maximum operating efficiency and convenience with a wide variety of memory resources, including 900 "ragular" memories, six "Home" channels for favorite frequencies, 99 for Skip search memories, and 50 pairs of "Programmable Memory Scan" memories,

# Useful Features

- Rugged P54 Rating (Dust & Water protection) Construction
- Wide Band Receive Coverage 108 579,995MHz
- Versatile Scanning Capabilities;
- Programmed VFO Scan, Memory Scan, Priority Channel Scan)
- · WX Channels with "Severe Weather" Alert (US version)
- 7.4V 1,800mAh Lithium Ion Battery pack (SBR-24LI) Included
- · Equipped with External DC Jack for DC Supply and Battery Charge
- Equipped with Mini USB port for Convenient Memory Management and Software updates
- CTCSS/DCS Operation
- RF Squekh
- Automatic Power Off (APO) Feature
- Transmitter Time Out Times (TOT)

# BATTERY OPERATING TIME (Approximately)

Band	Operating Time (SBR-24U)
144 MHz	8 hours
430 MHz	7 hours

<sup>\*</sup> SW/ Tx 6 sec. Fix 6 sec. Standby 48 sec. Duty cycle (Operating time may very depending on operating conditions)

		OPT GNS										
	PG Connection	•0	19	Garla Gabbs	Cienna	Glening	1	DG Gable with	BNC-to-SMA		4	
	Croke (USS)	Ceble Daub%	Date Cable CT-170	(2,50) CT-176	Ceble CT-168	Capie CT-27	DG Caldle E-DC-6	Lighter Plug SDD-13	Adapter CN+3	Seft Case SHC-24	Soft Case SHC-27	Bell Cip SHB-13
Ð												
700												

<sup>\*</sup> The DG-ID group operation has comparishing only between the C4FM pigital transceivers that have the DG-ID feature, if your C4FM portables or mobiles have not yet updated for DG-ID, please update the firmwine for the transceivers before using the DG-ID feature.



# Equipped with advanced touch panel operation and full-color TFT large-scale display

C4FM/FM 144/430 MHz DUAL BAND 50W DIGITAL TRANSCEIVER

FTM-400XDE:Europe

(DTMF Microphone MH-48A6JA, Mounting Bracket, Bracket for Controller, Control Cable 10 ft (3m). PC connection Cable SCU-20, Stereo Monaural Plug and DC Power Cable included)



# AMS (Automatic Mode Select)

The Automatic Mode Select (AMS) function instantly detects the received signal mode.

- V/D mode (Voice/Data Simultaneous Communication Mode)
- · Voice FR mode (Voice Full Rate Mode)
- . Data FR mode (High Speed Data Communication Mode)

· Analog FM mode



# Snapshot Function (Image Data Transmission)

Simply connect the optional MH- B5A11U microphone with camera, Press the microphone shutter button to take snapshols, and easily send them to other C4FM digital transceivers.

- mitro 50 card is regulated by the snapshet function.

# 3.5-inch full color touch panel operation

icon symbols, multi-function key display and pop-up messages are all displayed in high-resolution color thanks to the full-color, high luminance TFT liquid crystal screen. The settings and status of the wireless devices are displayed in an easy-to-read format. You can perform various function operations simply end easily by gently touching the screen.



Band Scope Screen



Digital Group Monitor Screen



Screen



Smart Navigation Screen



APRS® Screen

\* The DS-C group operation has competitute any ontwinen the C4FW digital ingroupers that have the DS-C legions. Ayour C4FW contracts or mobilishing any yell updates for DS-C, please update the himself for the horsecovers before yourse DS-C legions.



FP-103DA<sup>12</sup>

# Equipped with micro SD Card Slot Built-in Improved 66ch GPS with Antenna

SAD-11"

briero SD card not included). Osta communicación Fernand I micro SD care stat



Frant side of the Radio Unit

SM8-201



Rear side of the Controller

MOIN10 pm to Open



FP-102318

CY-188

SCII-23

MEK-Z

<sup>&</sup>quot;I Depending on the transceiver version, "2 US and Asian versions only, "3 US version only



A digital mobile transceiver for a new age, with a wide variety of mobile operations made possible through advanced C4FM technology

C4FM/FM 144/430 MHz DUAL BAND 50W DIGITAL TRANSCEIVER

# FTM-100D

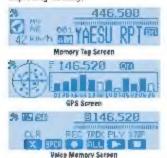
FTM-100DR:US, Asia and Australia FTM-100DE:Europe



(DTMF Microphone MH-48ASJA, Mounting Bracket, Bracket for Front panel, Control Cable 10 lt (3m), PC connection Cable SCU-20, Stereo Monaural Plug and DC Power Cable included)

# An easy-to-read graphical interface via a full dot-matrix display

The full 160 x 40 dot-matrix display reveals dedicated screens and icons so that you can quickly recognize each of a variety of features. Also, the white-LED backlight provides ample brightness and contrast for improving visibility.



# A large BUSY/TX indicator that provides communication modes in different colors





# DG-10 PX 32 DG-10 PX DG-

Digital Group Monday Screen

# Image Data Transmission\*

Snapshoth received from other stallons, or images downloaded from the WRES-Wheve Station, are stored on a high-capacity microSD card, thage data stored on a microSD can be viewed and edited using a personal computer,

Sophisticated C4FM Digital

Functions are Supported

Expanded Digital Group ID Features

in the C4FM digital Mode, a Digital-Group-ID (DG-ID) can

be set by each group member to facilitate

communications between the specific group participants,

The Group Monitor function automatically alerts users when group members are within communication range.

\* The DG-D group operation has compatiblely only between the C4FM doubt.

Increaseware that have the CG-C) mature, Byour 124-M portables or mobiles have

not yet updated for DG-D, places tools is the firmwere for the francoivers before

\* The optional MH-85A11U Carrein Secalar Microphere carried be connected.

# **Smart Navigation Function**

# Real-time havigation

ising the DG-O fragues

Digital mode transmits the boaton and station information data simulianeously with the digitizes audio signal. You can view the distance, chrection and trail sign of received signals in real-time white communicating in the Yaesu CAFAN digital mode.

# The FTM-100DR/DE supports WIRES-X

You can connect the FTM-100DR/DE to WIRES-X node stations and easily enjoy long-distance communications over VHF/UHF bands via the Internet. Furthermore, you can connect the FTM-100DR/DE to the optional HRI-200 WIRES-X Internet Linking Kit to quickly establish a WIRES-X node station. The FTM-100DR/DE is ideally suited for use in node stations, and the display backlight can be completely turned off.



# A variety of features that ensures ease of use

- 50 W of power output sufficient for communication on the VHF/UHF bands
- 1200/9600bps APRS® Data communication.
- · microSD card slot.
- Built in high sensitivity 66 channel GPS antenna.
- · GPS logging capability
- · High sensitivity and full-fledged wideband reception
- Dual Watch Function.
- Powerful 3W speaker output, 8W output for optional MLS-200-M10 External Speaker,

\*Smultaneous reception on A hand and B hand is not supported.

## Vacuum Cus Mount PG Connection Soparation Bracket for Controller DTMF Microphone Normal Microphone Adapter Unit Voice Guide Unit External Speake Cable Cable 20 ft l6ml BU-2 MLS-200-M10 SCU-20 MH-4BALIA MH-420U FVS-2 MMB-98 **CT-182** CT-163 MONTO pin to MONS pin + Double CT-184 MOINTO parto MOINS par CT-185 MDN10 pm to Dsub9 AC Adepter AC Power Supply (25 A) AC Power Supply(23 A) Desistan Contra Fac CT-157 Mic Extension Kit Cloving Cable for SME3-201 FP-1030A<sup>22</sup> FP-1023\*3 SAD-11" MEK-2 **CT-188** SMB-201 MOINTO pin to Open

<sup>&</sup>quot;I Depending on the transcover version." I US and Asian versions only. "I US version only.

# High-Performance C4FM/FM Dual-Band Mobile



C4FM/FM 144/430MHz DUAL BAND 50W DIGITAL TRANSCEIVER

FTM-7250DR: US, Asia and Australia

FTM-7250DE: Europe



50 Watts (VHF and UHF) Stable High-Power



(DTMF Microphone MH-48A6JA, USB cable, Mounting Bracket and DC Power Cable included)

Output with FACC

The FTM-7250D offers the Yaesu legendary

mechanical toughness and steinle high output.

power, The FACC (Wind Tunnel) gathers coof

air through the wide open front air intake and directs it to the final amplifier area and out the rear cooling fan, This efficient cooling

system ensures stable output power for continuous long-distance communications,

# Operates C4FM Digital and Conventional FM modes

Both conventional FM operation, and the advanced C4FM Digital mode are available, C4FM has better BER (Bit Error Rate) characteristics compared to other Digital modulation. systems and permits stable long-distance communications, The C4FM digital modulation provides exceptional audio quality,

# Effortless AMS, FM and C4FM Operation with Multi-colored LED Mode-Indicator.

# FM friendly digital operation is made possible by AMS (Automatic Mode Select)

AMS automatically recognizes the received signal as C4FM Digital or conventional FM, and switches the receiver to the appropriate mode. The MODE indicator shows the Transmit/Receive mode and status at a glancé.

Digital-Group-ID (DG-ID) Feature





Mode Indicator

# 3W Loud Front Speaker

The front facing speaker provides 3 watts of loud audio. The FTM-7250D speaker audio has been tuned for improved sound quality. The optional Yaesu MLS-100 external speaker supports notsy field operation,



FACC: Funnel Air-Convection Conductor

3W 35x56mm Front Speaker

# Four Programmable key buttons (P1-P4) on the microphone allow one-touch access to

User-Programmable Microphone Keys

favorite command functions. The microphone function commands replicate the corresponding front panel functions. Available Key button functions:

# Available Key functions:

- Récall HOME channel Select communication Modé (D/A) Scan operation
- Activate the Group Monitor function
   Set the TX Power
   DG-ID registration and Recall\*
- Open the Squelch
   WIRES-X Mode access
   WX channel access
- · Quick access for Setup Menu
- 41 Fixed the functions as P1/P2 key 42 Only for US version

# **DG-ID Memory feature**

communication range.

DG-ID memories can store up to 10 DG-ID pairs with alpha tags. The registered DG-ID numbers in the memory can be quickly recalled using the P1/P2 key buttons on the DTMF microphone. Number of in-range stations.

In the C4FM digital Mode, a Digital-Group-ID (DG-ID) can be set by each group

member to facilitate communications between the specific group participants. The

Group Monitor function automatically alerts users when group members are within

Sophisticated Digital-Group-ID Operation







Digital Group Monitor Screen

# Useful Features

- 225 Memory Channels with 8-character alpha-numeric tags.
- Versatile Scan features: Preferential Memory Scan, Programmable memory scan, VEO. scan, Priority Channel Scanning (Dual watch), and Weather Alert Scan: (USA version only)
- Supports WIRES-X features (Does not support operation as the WIRES-X Node Station)
- Memory Only Operating Mode
- CTCSS & DCS Encode/Decode Operation, with split Tone and DCS Encode-only apability

			CPTIONS	. · · ·	EII
	DITATE Microphone MH-48aaja	Normal Microphone MH-42cus	AC Power Supply (25 A) FP-1030A**	AO Power Supply (23 A) FP-1023 <sup>2</sup>	High-Power External Speaker MLS-100
FYM-72500		•		•	•
FFM-3200D	•	•	•	•	•
FTM-32070		•			•

<sup>\*1</sup> US and Agen yersions only \*2 US version only

# C4FM/FM High Power Mobile

# 144MHz 65W High Power Mobile



C4FM/FM 144MHz 5:NGLE BAND 65W DIGITAL TRANSCEIVER

FYM-3200DR. US, Asia and Australia FTM-3200DE, Europe

(DTMF Microphone MH-48A6JA, USB Cable) Mounting Bracket and DC Power Cable included)







# 430MHz 55W High Power Mobile



C4FM/FM 430MHz 5 NGLE BAND 55W D G TA. TRANSCEIVER

(DTMF Microphone MH-48A6JA, USB Cable. Mounting Bracket and DC Power Cable included}



FTM-3207DE Europe





- Operate C4FM Digita: and Conventional FM modes
- Effortiess AMS, FM and C4FM Operation. with Multi-colored LED Mode-Indicator
- Enhanced Digital Group ID Feature
- DG-ID Memory Feature

- 65W (55W) Stable High-Power Output with FACC
- 3W powerful Front Speaker
- User Programmable Microphone Key buttons
- 220 Memory Channels with
  - 8-character alpha-numeric tags

# Effort ess AMS\_FM and C4FM Operation with Multilicolored LED Mode indicator

The AMS function enables hassle free operation by removing the need to manually switch between modes

The MODE indicator shows the Transmit/Receive mode at a glance



Mode Indicated

# Sophisticated Digital Group DiOperation

# Digital-Group-ID (DG-ID) Feature

Digital Group-ID (DG-ID). In the C4FM Digital Mode, can be set separately for each group member to facilitate communications between the specific group participants.

# DG-ID Memory feature

DG- D memory can store up to 10 DG-ID pairs with alpha lags. The registered DG-ID numbers in the memory can quickly be recalled, using the DTMF microphone

# 102 802 b DG-ID Set up and Memory



Number of in-range stations.

# Dependable High Power Output with FACC

The FTM 3200D/FTM-3207D provides reliable and true high output power with FACC (Funne Air-Convection Conductor) Wind Tunne cooling system. The efficient cooling system ensures stable high performance for continuous long-distance communications



FACC Funnel Air-Consection Conductor

# Loud Audio with 3W Front Speaker

The front facing speaker provides 3 watts of foud auxilia The FTM 3200D/FTM 3207D speaker audio has been funed for even better sound quality



37 35 K5 Smarp Front Speaker

# Useful Features

- Versatile Scanning features. Preferential Memory Scan. Programmable memory scan. VFO scan. Priority Channel Scanning (Duai watch), and Weather Alert Scan (USA version only).
- Supports WIRES-X features (does not support operation as the WIRES-X Node Station)

# Convenient and easy-to-use digital functions, advanced VolP wireless WIRES-X



AMATEUR RAD O INTERNET LINKING KIT

USB Cable CT 174 (MDIN IO pin to MDIN 10 pin), and Data Cable CT 75 (MDIN 10 pin in MDIN 6 pin) Included



# Features

- High quality voice communication using C4FM digital
- Advanced features made possible by C4FM digital functions
- Digital/Analog neutual communication
- Easy Set-up of HRI-200 with USB connection

# High Performance Commercial Grade Specifications



144/430 MHz DUAL BAND 5W FM TRANSCEIVER

FT-65 FT-65R US and Asia FT-65E: Europe



144 MHz SINGLE BAND 5W FM TRANSCE VER

FT-25R. US and Asia FT-25E. Europe

FT-65/FT 25 Supplied Accessories (7-49-1950mAh Lilion battery SBA-25L, Battery Charger SBH-22, AC Adapter SAD-20 and Belt Clip Included)

- Commercia Grade Specifications: IP54/MIL-STD 810 C, D and E
- 1 Watt of Powerful, Clear Audio
- High Power 5 Watts Curiput and selectable setting 5W / 2 5W / 0.5W
- QRK (Four Quick Recail Key buttons: P1-P4) for Easy Operation
- Emergency Signaling, Bright white LED Flashlight, One-touch Alarm, and Quick HOME Channel Access.
- Included 1950mAh Li-ion Sattery Pack capable of over 17 hours of operation
- FM Broadcast Receiver Equipped

# VALUABLE FEATURES FT 66/FT 25

- 723 Memory Channels with 8-character alpha tags {222 Memory Channels for FT 25;
- versatile Scanning Capabilities, VFO Scan, Memory Scan, Programmable memory scan (PMS), Memory bank scan, and Duai receive
- WX Channels with "Severe Weather" Alert (only available in NOAA weather service areas,
- VOX Operation with Optional VOX Earpiece Microphone (SSM-612B)
- 3 5-Hour Rapid Charger (SBH-22) included
- PC Programmable with Optional Programming Cable (SCL-35)
- Transceiver to Transceiver Closing with Optional Cloning Cable (SCU-35)
- · ARTS (Automatic Range Transponder System) function
- DTMF Operation
   CTCSS
   BCS Operation
- Busy Channel Lock Out (BCL0)
- . Battery Saver function . Automatic Power Off (APO)
- Transmitter Time Out Timer (TOT)



ORK (Quick Recall Key)

# Battery Operating Time (Approximately)\*\*

Bend	\$BB-25i	SBR-26I
144 VHz	7 hours	22 hours
450 MHz*2	16 hours	20 hours
FM Brosocast	3 5 hours	15 nours

Note: TV: FIRMS Standby 90 Out, Dyde cased on 5W TX Power Signly FT(s)

# Ultimate Compact High Performance FM Handheld



SINGLE BAND 5W

FM TRANSCE VER

FT-4VR. US and Asia

144MHz

144/430MHz DJAL BAND 5W FM TRANSCE VER

FT-4X FT 4XR US and Asia FT 4XE Europe



- 1 Watt of Powerful Clear Audio
- High Power 5 Watts Output and selectable setting 5W / 2.5W / 0.5W
- QRK (Two Quick Recal Keys: P1-P2) for Easy Operation
- Emergency Signaling, One-touch Alarm, and Quick HOME Channel Access.
- Included 1750mAh Li-Ion Sattery Pack capable of over 15 hours of operation.
- FM Broadcast Receiver Equipped

# VALUABLE FEATURES FT 4X/FT 4V

- 223 Memory Channels with 6-character alpha lags (222 Memory Channels for FT -4V)
- versatile Scanning Capabilities, VFO Scan, Memory Scan
   Programmable memory scan (PMS). Memory bank scan, and Disal receive
- WX Channels with "Severe Weather" Alert (only available in NOAA weather service areas)
- VOX Operation with Optional VOX Earplace Microphone (SSM-5128).
- 3 5-Hour Rapid Charger (SBH- 22) Included
- PC Programmable with Ophonai Programming Cable (SCL-35)
- . Transceiver to Transceiver Cloning with Optional Cloning Cable (SCU-36)
- FM Broadcast Receiver Equipped
- ARTS Automatic Range Transponder System: function
- DTMF Operation
   ◆ CTCSS
   DCS Operation
- Busy Channel Lock Out (BCLO).
- Battery Saver function
   Automatic Power Off (APO)
- Transmitter Time Out Timer (TCT)



QRK [Quick Recal Key)

Battery Operating Time Paproximately?"

, , , , , , , , , , , , , , , , , , , ,					
Band	58R-26L				
344 MHz	15 hours				
430 MHz/2	4 ricurs				
FM Broadcast	. E hours				

Note: 1 170 5 (RIO 5 Standay 90 Duly Cycle bravel on 5W TX Power

FT-4VE: Europe FT-4X/FT-4V Supplied Accessories (7-4V-1750mAhra-ron battery SBR-28L, Battery Charger SBH-22-AC Adapter SAD-20 and Self-Clip Included)

	Contract of the last				_ options _				
	Season Microphone 55M-168	VTX Eerolece Vicrophare \$\$M-512B	74 v 950 m/An Linkar Balkerv SBR-25L,	7.4 v z 500 mAh mon Ballery \$38, 26L,	7.4V **SDNAh -ion Badeny SBR-28LI	Rapid Charger 58H-22	AC Amapter SAD: 20°	Programming cable SCU-35	Clanng Cable SGU-36
	97HJ. 10D	39M-315b	3DH-E3E	SOLL TOP!	ODM. SOFI	9041.FT	GAD. ZU	800.00	300.36
FT 65/FT 25	•			•		•	•		•
FT-4X/FT 4V	•	•			•	•	•		•
Forcosino :	or the upon-to-to-the	roi o o	•	•	•	•			



# Ultra-rugged, Submersible Dual Band Transceiver

144/430 MHz (220MHz) DUAL BAND SW FM TRANSCEIVER (220MHz FM: 1 SW (US version Oran))

VX-6
VX 6R:US, Asia and Australia

VX-6E:Europe

7.4Y 250mAh\* Lithum ion battery FNS-80L and battery charger PA-48/SAD- J/SAD- 6/Depending on the transceiver version) included) Importing Battery capacity based on BL DERECTINE 2000/97/EX

# Outdoor ready Features no ading Waterproof Rating

Compact Polycerbosate Resin and Alumbum Die-Cast Case with Solid Waterproofing Sear

The VX-6 is rated to IPX7 specifications for submarsion jup to 30 minutes at a depth of up to three feet)

# One Touch Stored Frequencies Access

The VX-6 adopts a one-couch DMR (Direct Memory Roual) system that operates just like your car stored memory

# Wide Band Receiver Coverage

In addition to full operation on the 144 and 430MHz Amateur bands the YX 6 provides a wide range of monitoring excitement, thanks to the incredible receiver frequency coverage of 504kHz to 998 99MHz

# Additional Features

- · Emergency Automatic ID system (EAI)
- Channel counter function.
- Smart Search
- RF Squeich
- · Automatic Repeater Shift (ARS)

Power Dutput/Power Source Chart (Abotekimetely)

	ншн	F0M3	70005	- LOWER
FNB-80Li or EXFIDO pro Meb/USA version	555 555	2.5 W na 44	0 % (0.5 m)	0,05 yy 10.2 Wr
FBA-23 2 'AA' Alkainon	0.8%		0.057/4	

Battery Operating Time (Approximately)

Bend	FNB-80L	Stattery Case		
14 MHz	Fours	€ e mours		
430 MH.	64	ours .		
Receive Only	15 nours			

Note: Powering fines may vary depending on toerstray, totalizers and are treated on a duty-cycle of 8 separats of terremeters of ministry, 6 separats of terremeters of ministry, 6 separats of teoretics of standary operators.



# Reliable Dual Band Handheld Transceiver

144/430MHz DUAL BAND 5W FM TRANSCEIVER

FT-60R US, Asia and Australia

(7.2V 1400mAh Ni-MH battery FNB 83, Desktop Rapid Charger SBH-13(US) and Battery Charger PA-48/SAD-16(Depending on the transceiver version, included)

- Wide Band Receiver Coverage (108-520MHz / 700-999.99MHz)
- 5 Watts of stable RF Power
- Emercency Automatic ID System
- One-Touch NOAA WX band Access (US version)
- Over 1000 Memory Channels
- Single-band and Memory-only Operating Modes
- Smart Search Automatic Memory Loading

# Commercial Grade Field Radio Submersible Construction

144 MHz S NGLE BAND SW FM TRANSCE VER

FT-270R

(7.2V 400mAh Ni-MH battery FNB-83, Desktop Rapid Charger SBH-13(US) and battery charger PA-48/SAD-16 (Depending on the transceiver version, included)

- Commercial Grade Performance
- Submersible Construction IPX7 ( 3ft/1m for 30 min).
- Large Backilt LCD Display for easy Operation
- 5Watts of Stable RF Power
- BOOmW Loud Audio
- 200 Memory Channels
- Hands free VOX Operation with Optional SSM-64A

Battery Operating Time(Approximately)

Band	Baltery	FNB-80 FBA-26A
144	MHz	8 hours <sup>-1</sup>
431	MHz	a hours*
Res	रु%ंगपु	15 haurx

Note 1 Cluty Cycle bases or 5W PC Facc 1X 6500 Fix wiscole, and 48 sec Rusquelated.

"2 Ising FNB-83, Audit Valume

	10 10	·	4	n inge			OPTIONS:						
		Seroia Seesar Varance MH-S7448	Wantool intool Versione MH-73a48	Eespene Microprone SSM-SSA	C 1 / Longuet - sool/like wir Furgeet SSM-57A	Lightwoody, VOX lesses SSM-63A	W/W leadsol	DTFV Pagng Uni FTD-7	Barteran Pressure Sensor SU-1	Photodisco in all the FNB-80LL		2x AA*Gel Bactery Tray FBA-23	67 AA*ONI Bollery Tray FBA-25A
¥X-8		•	•				•		•	•		•	
FT-BOM	•				•	•					•		•
FT-270R													•
	Pupod -nurger i2 nours	Dissions Hand Charge Milhours Hospital William SBH-13			A shaoter PA-487 SAD-181 SAD-167	agent in given the		Library John CT-27	Microphone Adapher CT-44	Microphone Adapter CT-91	Adapter on secure CN-3	50H 10H 450 CSC-91	,
AX-II			•		•	•	•				•	•	
FT-60N		•			•	-			•				
	_	_		1	_	_	_	_	_		_	1	



# Ruggedly-Built, High quality 29/50/144/430 MHz Quad Band FM Transceiver

29/50/144/430MHz 50W/35W (430MHz) FM OJAD 8AND TRANSCE VER

# FT-8900R

US, Asia, Australia and Europe

(DTMF Microphone MH-48A6JA, Mounting Bracket Separation Kit YSK-8900 and DC Power Cable included)

# Independent Two Channe Dua Receive and Full Duplex Operation

Operating as two radios in one, the FT 8900R may be configured in a number of ways. For example, if can be set up on the "left" side for operation on 29, 50, 144, or 430 MHz operation, while setting the "right" side to 430MHz. Or set up the left side on 29/50, 144, 430 MHz, and the right side on 144MHz. The FT 8900R may also be configured for 144, 144 MHz or 430-430 MHz dual receive operation—so you have missibly on the action. The left and light sides have their

own volume and Squelch controls as well as separate Simeters so operating preferences are never compromised.



# Quad Band Operation

The FT 8900R combines the "traditional" 144,430MHz local-communications concept with the exciting capability of Sporadic-E or FZ DX on the 29MHz and 50MHz bands for nationwide or worldwide FM communications from your car. The first Amateur Radio HM mobile transceiver providing this capability, the FT 8900R, will make you wonder how you ever got by without this two-band transceiver until now.

# High Power Output

The FT 8900R puts out a full 50 Watts of RF power on the 29/50.144MHz bands and 35 Watts on the 430MHz band. To ensure thermal stability during long transmissions a thermal sensor monitors heal sink temperature engaging the tear panel cooling far when needed.

HIGH	MD.	MD2	07/4
50W/05W(430MH)2	2.JW	10//	57(4)

# Over 800 Memory Channels

The FT 8900R provides a wide variety of memory resources including 799 "regular" memories, six "Home" channels for favorite frequencies, five pairs of band-edge memories, and six "Hyper Memory" memories, which store complete fransceiver operating status, for maximum operating efficiency and convenience.

# One Touch Band Pattern "HYPER MEMORY" Feature

To save valuable time while operating a transceiver with the versatility of the FT 8900R, the "Hyper Memory" feature allows the storage of a complete set of configuration data for the two operating bands. Besides the usual storage of frequency and fone data. Hyper Memory will store such setup parameters as

Automatic Repeater Shift status Packet parame era Scanning mode and vFO racking, avoiding the need to change each of these functions manually on a regular basis



# Built in Duplexer

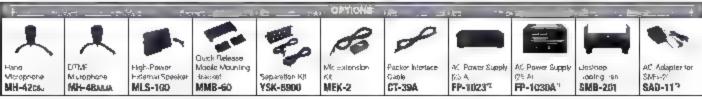
Utilizing a single antenna jack, the FT 8900R's leading edge design includes a high-performance duplexing system, with extensive filtering to allow cross bandfull duplex operation.

# Cross-Band Repeat Capability

For emergency work, or to extend the range of a hand-held unit, the FT 8900R includes Cross-Band Repeat capability.

# Additional Features

- Convenient Remote-Head Mounting Capability (YSk 8900 Supplied Accessory)
- 50-Tone CTCSS/104 Tone DCS(Digital Code Squelch) Tone Systems
- user Programmable Microphone Keys
- · Fasy Setup for FM Satellite Operation
- 1200/9600bps Packet Capability. Connect your TNC using the optiona. CT 39A Packet Cable
- RF Squelch Opens the squelch at a user defined 5-Meter level
- Battery Voltage Meter
- DTMF Auto-Diai Memory. 16 Memories of up to 16 tones each
- Lock Feature for Front Panel Keys & PTT Switch Prevents accidental transmission or frequency change





Heavy-Duty
FM Dual band Mobile
with Wide-Receiver
Coverage

144/430MHz SOW/45W (430MHz) FM DJAL BAND TRANSCEIVER

FT-7900

FT 7900R-US, Asia and Australia

FT 7900E-Europe

(DTMF Microphone MH-48A6vA, Mounting Bracket Separation Kit YSK-7800 and DC Power Cable included)

- Large Backlit LCD Display for easy operation.
- Stable RF Power (50 Watts VHF / 45 Watts UHF)
- Reliable performance in harsh environments
- 1000 memory channels with 20 Memory Groups
- Remote Front Pane Design (Separation Kit YSK 7800 : Supplied Accessory)

# Advanced Features

- One-Touch Hyper Memonas Feature 4 Power output levels 50 45W/20W/10W/5W
- Wide RX Frequency Coverage 108 520MHz, 700 999 990MHz (Cellular Blocked)
- 50-Tone CTCSS/104-Tone DCS Tone System 16 DTMF memones.
- · Yersattle Scanning Capability · Smart Search Operation
- 1200 or 9600bps Packet Operation ARTS (Auto-Range Transponder System).
- Radio to Radio Clening.



Genuine 65W High Power 144MHz FM Mobile

144MHz 65W FM SINGLE BAND TRANSCEIVER

FTM-3100

FTM-3100R US Asia and Australia

FTM-3100E: Europe

(DTMF Microphone MH-48A6JA, USB Cable: Mounting Bracket and DC Power Cable included)

- 65W Stable Output Power with FACC
- Loud Audio output with 3W front speaker
- Expanded receiver coverage: 136-174MHz
- 220 Memory channels with 8 alpha-numeric characters
- User-Programmable Microphone Keys (4 keys)



FACC: Funnsi Air-Convection Conductor

# Advanced Features

- Memory Only Mode 50-Tone CTCSS-104-Tone DCS Tone System.
- Versatile Scanning Capability
   TX/RX Split frequency memory
- RF squatch (only passes signals exceeding the programmed squatch level)
- ■DTMF Auto dialer (10 channal) Operation
- Large LED Mode indicator for easy operation

# <u>48528</u> 39

The King of Mobile, 80W High Power Output

144MHz 80W FM SINGLE BAND TRANSCEIVER

FT-2980

FTM-2980A JS Asia and Australia

FTM-29806 Europe (DTMF Microphone MH-48A64A, Mounting Bracket and DC Power Cable Included)

- Massive Heatsink guarantees 80 Watts of RF Power with No Cooling Fan Needed
- (Four selectable power output levels are provided: 80/30/10/5 Watts)
- Loud 3 Watts of Audio Output for noisy environments
- Expanded receiver coverage: 136-174MHz
- 200 Memory Channels for serious users

# Advanced Features

- CTCSS and DCS Encode/Decode Built in versalile Scanning Capability
- Dual Receive WX Channels with "Severe Weather" Mert (US Version)
- Smart Search Operation DTMF Direct Access Microphone Included
- Alphá-Numeric Channe Display RF Squelch
- Interactive Programming Menu.

						60-F1_80	E _,				
	_	*		Quitos Stolhasso	The same	B	00		=		43
	Microphone	DTMF Microphone MH-48asja	figh-Power Enternal Speaker	Makis Mounting Gracket MMB-60	September 19t YSK: 7800	KI		্বর <b>এ</b>	AC Power Supply \$5.4 FP-1030AT	Gooding an	AC Adapter for SMH-201 SAD: 117
FT 7900		•	•	•		•		•	•		•
FTM-3100	•	•	•					•			
FT 2980		•						•	•		

<sup>.</sup> Will and Value variables only 19 MS variable only 13 Depending on the transcerver

# Handheld Transceivers

## PROGRAMMING KIT Windows PC Postarming Kit. ADMIS ADMS-II ADMS-10 ADMS-VIS Months and ADME-1J ADMS-270 SOFT CASE & BELT CLIP C-5-C/8HC See May Design SHC Y4 되다 ESU 31 9149-13 BHI ÇID CUP-170 Sarvel Beit Chp . MICROPHONE/HEADSET MH-34B4B Compact Speaker Microphone . \$3M-57A Compact Lapet Mic with Betheron . • MH-57A4B Compact Spawier Microphone . • MH-73A4B Waterproof Speaker 'fillcrophene . • SSM-16B Specier Maraphine MH-85A116 Saesker Marsahime with Snapshet sameta AM-MES Jehrweight VCN (histo-Operator) Heather ŵ ٠ . • AFR-MES Jehnweight MOI (Votes-Operated) Headeof SSM. SSA Explese Microphane ٠ ٠ VOX European Microphone • SSM-612B CABLES & ADAPTERS E-DG-6 Du detrie (Plug end Waz Only) . . . SDD-10 BC caste with algorith-Lighter Flug • . • . . Adaptin for use with BML Connector CN-3 • . Ġ. . • CT 97 cloning cable . . GT 44 Microphysia Adaptor . . CT 97 Meroproma Adapter . . C\* 384 Clanning Celolo -CT 359 PC versuection Cable (libute) CT 470 Dobs Cutter CTA76 Bata Cablerii 5 (P) • SC4-18 PL Connection Cable (USB) • m 4 BCU- 15 Ртодгатичну д Серва 3CU-15 Clareng uzbin BATTERY PACK & BATTERY TRAY BARRY TRAY Alcaine della Baltany Tray TBA-1911AR FB04-21(2)(40) Te-Saphan Ple-Saphadi FNPLAS M-Mile Brattery Pack (7.1 V. 1400 m/M) TNB-60L Littlum-kin Battery Parts (7.4 Y. 1250 mAh)? FNB-10TL Lithium-lan S-many Pace (7.4 Y. 1700 mA/o • 887-14L Liftium-low Bartleyy Pack (7.2 V. 2800 with) • 9BR-24L (Blum-los Battery Fedi (7,4 V. 1490 mAte. .Hirtuphy-less Batterry Packs 7 417 1950 (n/A)/r 288.251 \$8A-2FL Maum-len Battany Peck (7.41), 2505 mAN \$8-9-20L utilitizm-lon Stattery Pack (1.49, 1750 mAh) ٠ BATTERY CHARGERS Beste charger (2.5 hours) ۰ CO- BA CD-26 Charger Credie • CD-41 Rigid Charper . 884-13 Desirtes Rapid Thurper (4 heart) Requires PA-48 • . Ropid Charger 3BH-22 ٠ • SBH-28 Rapikt Charger Rapid Chatger (1.5 hauts) • YAC: 1707 PA-487 AL Astactor • • ٠ SAD-161 • • Att. Aule pitet SAD.117 All Adapted . • 9AD-187 AL Adapter . SAD-201 All-Adapter -OTHERS Str-1 Berometry, Prosume Serve DTME Paging Will FTD-7

# \* Inchased Salvery aparity based on FII DIRECTIVE 2006/66/FF

# **Mobile Transceivers**

		Alas B	
MICKOPHON	ER/RPEAKER		
MH-42047	Hand Microphone	•	•
MH-4JAEJA	DTMF Microphone	•	•
MH-8SA1TU	Microprove with anapathol commit	•	
MLS-100	lägh-Pareer Externel Speaker		
Mil.s. edn. Aéjo	High-France External Speaker	•	٠
ERACKET			
MIMB50	Guita Referen Mobile Moveling Bracket		
MMB-94	Varioum cup Mount Bracket fai Contrains Front panel	•	•
CABLES	-		
Y8K-8900	Epperation KN		
YSK-7600	Ségumi adfiçat. Khi		
MEK-2	Ms pateriatus (A)	•	
CT-89A	Pagney Injeriesa Tajbie		
GT-162	Sépacation. Calde 2011 (6rd)		•
OT:169	Dona Lable (MORNIO pm to MORNIS pm + Desutes)	•	•
CT-164	Data Cable (NON10 per to MON6 pir)	•	•
ÇT-165	Dala Cable (NOIN10 pln to Daulet)	•	•
OT-165	Cjerring Existe		٠
GT-167	Dela Cable (NON)10 pin to Oper)	•	•
9CU-20	PC Control Gent Cololo	•	•
SCU-21	Microptore authorism Califor for Mir 856710	•	
PROGRAMM			
Aphilis	Welfams <sup>TV</sup> PG Programming KM	ADMS-7	A/Drjaks-9
OTHERS			
  ±- 030A <sup>™</sup>	A.C. Pattern Computy (225 A)	•	•
FP-1023 <sup>*2</sup>	AC, Panyaer Grapping [23.4]	•	•
SMB-201	Deuktop Cooling Firm	•	٠
\$AD-11 <sup>73</sup>	AC Adapter for SME-201	•	•
BU-2	Bluespoth® Adapter unit	•	•
FVS-2	Voice Guide Unit		

Repending on the management version

<sup>&</sup>quot;2 sepending on the transceive version

# . ADMS-FEDD •

# **Handheld Transceivers**

		C4FM/FM	l Dual Band				
	FTZDR	FTEDE	FT-70DR FT-70DE				
Gaperal							
Георитсу	A SHAR SAND TAY THE ASSAULT SAND SAND SAND SAND SAND SAND SAND SAND	A Plant ResultS.  O S - Tai High Shift Result  1.3 Tai High Shift Result  30 38 - 100 - 10	보았. 122 NPD 198 Band 136 - 128 NPD 198 Band 136 - 129 NPD 137 NPD 137 NPD 122 - 420 NPD 137 NPD 122 - 420 NPD 147 NPD 147 NPD 472 - 47 NPD 147 NPD 147 NPD 473 - 471 NPD 147 NPD 147 NPD 473 - 471 NPD 147 NPD 147 NPD	32. (99 - 127 설립 187 0 pm합 137 - 138 설립 193 842 1938 137 - 193 843 1872 127 - 429 188 1872 471 - 471444 1911대보 보내 472 - 475454 182 (207)			
Panges	BSAC Bern RK 101 - 101 May (24 Sect) 110 - 174 May (24 Sect) 110 - 174 May (24 Me) May 122 - 420 May (24 Me) May 430 - 476 May (24) Sec (14) 470 - 475 May (24) Sec (14) 470 - 475 May (24) Sec (14)	Bite Bera Rt 10 - 157 Met jus Band 107 - 10 Met jus Belt Hall 104 - 201 Met Jerre 207 - 401 Met Jerre 400 - 570402 pain Met Hall 470   570403 Met (144)					
	1% 164 - 145 bilg 430 - 490 Will	TX 164、165 原也 432、442 時日	TK 146.4Mb 430 - 450 Wir	to tag tag Mrg 430 , 249 Mrg			
Charmal Steps	6 6.0% 8.33, 9, 10 T2.5 T5	20, 25, 55, 300 lets	9, 6, 25, 8, 33, 10, 12,5, 17, 2	Q 25, 50, 100 ere			
Frequency Stability	±2.5 ppm (-47- to = 140°).	20°5-10 × 60°C).	±2.5 ppm (-4 + to ×140F , -4	\$0° 08 010° 01			
Emitslan Type	Pro, Fab, Fall, Faw		F2D, F3E, F7W				
Supply Voltage	Remieral 7,9 YPD (Negative homine) 7,4 YPD (Negative Counting 4 + 14 YPD) (Negative Brown) 11,4 16 YPD (Negative Brown)	Ground FNU-103LQ no Ground ENT DC tasks	Name of 74 VOC (28%-24). Controlling 6 + 14 V Regetter 11 + 16 V Apparter Ground (5)	Geroused			
Cursed Consumption	120 må /Singh Bend Pene in 180 må (bred Bare Retains) 20 må (bred Bare Retains) 20 må (bred Bare, Brands) 110 må (bred Bare, Brands) 20 må (bred Bare, Brands) 20 må (bred Bare, Brands) 20 må (bred Bare) 20 må (bred Bare) 18 må (bred Perec CP) 18 å ("X, 164 Min E W) 1,4 n (TX, 164 Min E W)	Same Offi	30 mA (Receas), 9a176) 170 mA (Shanday, Shane Oth 15 A (17 A4 A4 hr s W) 12 A (17 A40 W62 6 W)				
Operating Temperature	-4°F ht + \$40°F -20°C to -	ED'C	-4"Fib+"4"F -20"Ub	2 GI =			
Caser Sitte (Machado) etalemo à ertemo à telèctio	24'14.1' x 14' (62 x 110 t	32.5 mm	8,36" r 3,86" r 1,30" r65 n 98 r 43 mm)				
Weight	10:33 oz (310 g) with \$84-14	LI & Interna	8,99 of 1255 of with SBR-24L) 6, artenna				
Transmitter							
AF Power Cutjud	0.3 W @4.5 V AAs 1 6.0 W @8aftery PublishEXT 1.3: Y,5W, Lit TW, L1 0.50/4	bc 172 V	5.0 W (株式) 巻 7.4 V 5894.24 J W (株式) 巻 7.4 V 5894.2 G,5 W (Lon) 巻 7.4 V 5894.2	(L)			
Sputous Emission	A) hasheligik balawith TX g A) hash 50 dib below (# TX g	NOWER HIT SE	An least 60 eft down (ATTX pawer High/Middle) At least 40 eft drawn (ATTX pawer Low )				
Microphone	2 k(1		2 kΩ				
Receiper							
Group Type	NEW / AM Trouble-1 eraters to	n	Dauble-Darwerslan Suparhen	зозуте			
histonedale	FM I AM Ragio Direct -Cores Tot: 47.25 Mirz No M. AM, A. 46.35 Mirz NOM RM, B Ban	පියානු.	1st 47.25 MHz 2nd 450 kHz				
Fraquences	JAC 400 MIS JULY WAY	41.	1.5 pN TVP for 10 dR SN (100	-137 ME2 AM1			
Semplifying o Penasered Methes AS Vode 10 st. On Kraylant Sode 11 42 SASO Optni Meda 200 13	0.35 or PoP (26) - 54 ASHA N 1.0 or TYP (76 (86) - 100 Me 1.5 or TYP (76) - 100 Me	L NATAS L NATAS 10 11 11 11 12 13 14 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18	LS promotion as a last con- cept of the state of the con- traction as a state of the con- cept of the state of the con- cept of the contract of the con- tract of the con	- 174 MHz, NERG Ez Meig, MRW - 350 MHz, NERG - 400 MHz, NERG J- 470 MHz, NERG 2 - 578 995 MHz, NEW			
Selecibily	NIFA AM 12 KH2 / 35 KH2 / E		12 kH 2 / 35 kH 2 (- 6 dd /- 60				
AF Output	No of the 10 % Tell brens and era in 10 % Tell parts	nd SF P <sub>i</sub> nick	700 m/s) (b) 10 % THO - Elematopeaner 300 m/s) (b) 10 % THO - Elematopeaner				
AF Output Impersonce	10		B ()				

# Handheld Transceivers

		FM Dual Ran	â-			FM Single Eand	
Connect	VX-NR VX-NE	FT-65R FT-65E	FT-4XR FT-4XE	FT-SON	FT-25R FT-25E	FT-4VE FT-4VE	FT-270K
Frequency Ranges	Ed.  Ob Applie (William)  Li. Shirke (William)  Li. Shirke (William)  Shirke (Willia		RX 138-17(1) 400 - 49(1) 200 - 48(1) 200	CO.  The Co. Will share During 122 - 57 Mem (MARCH) THE - 234 Mem (MARCH) THE - 134 Mem (MARCH) THE MARCH - Share Conf.	RX. 120 - 120 April 120 - 124	RX 116 - 1/a 6/8 2 100 - 1/a M/rs	RX 130-174 MHz
	T) to the to the control of the cont	Tis. 134. 148 MHz [US] 136. 156 MHz [US] 420-450 MHz [US] 430-460 MHz [US] 430-460 MHz [US]	TO: TO: TAKENER (05) TAK: TAKENER (15) TAK: TAKENER (15) TAK: TAKENER (15) TAKENER	7) Ind., 744 Mg/s 446 – 645 Mg/s	TO: 148-MIN (45) 104 - 146 MHz 186 - TX (48) (46)	75. 144, 148 MB (155) 138 - 175 MB (166)	TX, 144 - 148 MIN
Channel Steps	5 9, 10, 12,5 15 20 25, 60, 120 Mb	5 6,5, 10,17,5 15 (0,25, 60 h)0 k)	sikasi sihasidanwaksianwaks	1.00% 6 万克姆斯姆	5 4.25, 10.12 × 15, 20 25, 60 100 old	\$48,75710/12.5/15/20/25/50/100 Mrz 4.1.5 ppm	自己的是多年配的 Ann
Francisco Stability	15 pan (116° to 1172° nord to 150°C)	1474 °F is 4140 °F : -10 °C is 460 °C:	175 part   150 mm   1	ate of athors	1. 5 ppr. (1. 14 to 1. 14 to 1	(174 °F to #100 °F -10 °C to #80 °C)	केश्व अस्तिक स्ट न्द्रक-स्ट्री F2D, FXI
Emission Type Supply Voltage	F28, F36  Marriad TX v DC (Regains Ground)  Generally 5 - 16 VDC EXT DC automité Chargent)  11.5 - 18 DV DC (RXT DC automité Chargent)	Normal A4 V DC Negative Ground	F20, F36, F26 Newtrat 7.4 VDC, Regulate Strand	Figure 1915 Applications Transplates State (1915) and Warter 1915 Applications (1916)	FED. 118, F26 Normal /AVDC, Negalive Braind	F2D F8E F2A Numbrat 7,4 V GG, Negative Secund	Served 12700 Majoria Breedi Operating 6.5 - W. VIII (Ext. OC. 1884)
Cursent Consumption	250 mA (Receive) 400 mA (Receive) 400 mA (Secrety, Sever Office) on A (Secrety, Sever Office) on A (Secrety, Sever Office) on A (Secrety Sever Office) A (Secrety Sever Off	265 mA (Remain) 200 may Output 100 mA (Standay, Saver DP) 18 mA (Standay) Tolk 4 mg (Juna Peser DP) 15 A (TK 430 Metr 5 W) 1, FA (TK 430 Metr 5 W)	140 mA (Recent) 200 mW Outlet 35 mA (Recent) Save 205 23 mA (Naroth) Save 205 5 mB (Math Pener 205 15 A (Thi MA (Me) 1 W) 17 A TX 485 MHz 5 W)	The form of the first of the fi	205 ms (Decelve) 200 mW Cusput 160 ms (Scande), laws Orfi 18 ms (Scande), Sawn Ori 18 ms (Scande), Sawn Ori 18 ms (Scande) Ori 18 ms (Scande) Ori 15 s (Tal 14s Moz ii 4)	190 to A Placewini 200 or M Output 95 to A (Stander, Saver Oth 21 to A Stander, Saver Oth Comb (Auto-Power Diff 1,5 A (TX 146 389 5 M)	bij et den we ii bej htej 35 eë franse han M 55 eë franse han m 1 et pourteur Dij 1 et jûn hander vild
Specifical Temperal are Gaser State (Whith dis- not make a sharen kindi da	.4"1 to = 140"1; .20"3 to + 62"0 2,3" x 3,5" = 1,1" (5% x 89 x 26,5 mm.	= 4 'F to \$14 'F' = 20 °C to = 50 °C 2." x 4.3" x 1,2" (52 x 104,2 a .10 mm)	-4" 18 -14" , -20"010 -40"5 2" +85" x12" 52 +50 + 60 hm	21 m . UP (375 h . UP) 20 m 3 m 2 m 380 1990 90 mm	_ 4 % in .74 % _ 20 °C to = 50 °C 2.1" +4.1" + 0.2"   52 + 104.5 × 30 mm)	-4 7 to +14 7 -20 °C to = 60 °C 25° + 85° × 1,2° \$2 x 90 + 40 trans	21 6-101 (23 a) (03 22 6-12) (12) 81 (12) (12) (22)
Wagen	9.5 m (270 graph PAB-40), 14 universi	5,17 op (960 grighth \$18-75) ) and unlitare	\$ 50 m (951 of path \$88,781 land subserve	15/6 se BTI p nib WE-St & salenu	9 77 op (96) of with 198-251 ) and actions	\$ (0) of \$250 d mith \$89-\$60 and watered	Blasson philestyphen
Transmitter							
RF Fower Output.	5.0 to 104 (45), 400.)  5.0 to 1.0. Tought 10 (45), 10.0 to 1.0 t	5 W Hingly @ 7.4 V SBR-25L1 2.5 W Olderly @ 7.4 V SBR-25L1 0.5 W Olderly @ 7.4 V SBR-25L1	5 例 Higgs @ 7.4 V, SBR-2841 2.5 W (Middler @ 7.4 V, SBR-284.) 0.5 W (Long @ 7.4 V, SBR-284.)	migga (Figur 1994)	5 例 (4gr) (	5 等 計画的 等 7.4 年 325.7 次   2.5 等 特別的 等 7.4 年 58P-2 以   0.5 等 世の名 第 7.4 年 58P-2 以	を含む金属に対する。 Mariting では、 Mariting では、 Ma
Sportera (missan	At heart 2.5 of ) Sales, the Till design (HS 1)	N least 50 sit down till TX Power (lighthidde) O least 40 sit down (di TX Power (loss)	At best 41 of down (d) 11 Power traps Media. At best 41 of open (d) 11 Power (open)	Teration fluorente Terational fluoren	At Nov. 93 of down (th Till Fower Ingh-Nilsde) At Nov. 43 of down (th Till Power I page	At least 60 of course (BTI Power High Middle) or least 40 of course (BTI Power Log)	MacColode William spoke MacColode William spoke
Искорного (прессия		240	2kΩ	2×9	2kΩ	240	žkΩ
Receiver	M W ) NA Positio Conversas	Direct-Convention	Direct-Cenvers at	Substances	Cireci-Corversion	(Histor-Carvativa)	Jamb-Courses
Circuit lyps	THE MAN PROPERTY AND A STATE OF THE STATE OF	al section and	In the second second	THE CORNER	SATELLY AND BALL	The same of the sa	1st (A / Mile
Entermediale Frequencies	2m 450 m to 549m, Ann. 10,7 Miles (MPM) Sed 1 Miles (MPM)	+		(he 460kg)			258 450 kHz
Separatively as Verscenned United Verscenned United Verscent Tile Sel Verscent Sel Versch Verscent Sel Versch Verscent Sel Versch Verscent Sel Versch Verscent Sel Verscent Sel Verscent Sel Verscent Sel Verscent Se	15.5 年 15 15 16 16 4 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Dury her the ES SIMAD (160) - 150 MHz AFM( 50,0 pt for the T de SIMAD (426 - 470 MHz, MHM)	0.2 gV for 19 an SEAC) gAID - 150 MIN, AFM, 0.1 bV for 13 an SEAC gA20 - 470 MHz, RFM,	TO SY THE TOTAL BUT THE THE THE THE THE THE THE THE THE TH	D. P. pei for to as SNAO (140 - 150 Mars NEWs	O.Fun' nei 12 de Silvado cido — 150 MHz. धराबह	12 pr 104 - 100 mg Mil 104 d 104 d 104 - 100 mg Mil 104 - 100 mg Mil 104 - 100 mg 104 mg 104 - 100 mg 104 - 1
Selectivity	With 180 45 (10 65 (20 65 ) 40 40 With 180 Wi	72 kills / 35 left (=6 d8 /-60 d8)	72 0-9 / 35 e)0 (+8 ±0 /-80 ±9;	新聞 (100円) 本事を 今8回 (100円)	1/ 1/10 / 1/2 < H/ (-8 dB /-80 db)	12 mg / 35 km; (-8 d8 /-60 d0)	2 時に3 de (総数/記載)
AF Output	200 mW @ 10 % THO (@ 7.4 V) 400 mW @ 10 % 7HO (@ 19.8V)	TW MAX Plant . 0.8 W m 16 % THO	I W MAX PQAN DAW ® 10 % THD	10 (2 K) 10 (2 K) 10 (2 K)	W MAX POWER , S & W ⊕ 10 K THD	W MAX Power , Q € W 40 TO S. THD	Michael (N. D. OK DE (A. D. Kendar (A. H. A. D. C. T. T. D. D. (A. D. C. C. T. D.
All Curpet Imputance	852	16 17	16 ()	4.0	16 (?	16 €	8 5) /T& ()

# Mobile Transceivers

			4FM/FM	Dual Ban	d		a C	4FM/FM	Single &:	ind.	FM Qual Bayel	FM Du	al Band	1	FM Sin	gle Eand	-
	FIH-4MOR	FTW-KKYDE	FTM-1000	FON-PRICE	FIN-1151N	FIN LOOK	FIN-EDIO	FTM-22000E	FIM-150700	FTH-11070E	FF-BROOM	FT-79AA	FT-7M66	FENE-STIGMS		FT-2MOR	
Emeral																	
Frequency Ranges	(I. 131, 174-e 131, 144-e 131, 145-60 (41-0) 461 (41-0)	40 Kin - 197 Kin U7 - 111 Gro Tot - 401 Kin 400 - 401 Gro 400 - 401 Gro 400 - 401 Gro	40 981-117-Weg 131-174-Weg 132-185-Weg 405-443-Weg 405-443-Weg 131-243-94-91 35-91-36-01-Like 35-94	137 Mg 137 TANAU 137 TANAU 131 - 132 Mg 135 - 132 Mg 146 - 132 Mg 146 - 132 Mg	ub 's)、573,555 安)	ica Kin - 679, 185 Miro	en in me	EX.	MEN - ANTO MARIE	61 450- 477 Mg	(1) (1) (2) (3) (2) (4) (3) (3) (4) (4) (4) (4) (4) (5) (4) (4) (4) (5) (4) (4) (4) (5) (4) (4) (4) (6)	ME - SA LESS SER - SA LESS SER - SA SA LESS LE SA LESS LE SER - SA LE SER - SA LESS LE SER - SA LESS LE SER - SA LESS LE SER - SA LE SER - SA LESS LE SER - SA LESS LE SER - SA LESS LE SER - SA LE SER - SA LESS LE SER - SA LESS LE SER - SA LE SER - SA LESS LE SER - SA LESS LE SER - SA LE SER	100 - 100 mB-1 170 - 199 MB-1	DE - TRANS	ne tosa eu Me	(S) (NM)	η⊪ · Ler#-Ü es
	DI Sea e Sappeno 412 - ASD MEL	130 - 140 Mg/ 140 - 140 Mg/ 15	D) Nor-Willey Nor-Willey Nor-Willey	18 120 - 150 Mg 120 - 440 Mg		III. Had o ten lake Addo deligate	NO-PLEASE	12 164 - 185 Metr	(X - 6390)	d) erigini D	日 男・別等) 男・知恵 年 明治(1年) 本語 臣 祖徳(1年) 本語		D. Harrishme Harrishe	Hit (   St   PA	D. Str. Street	12 14 - 51 Mg	TE She can me
Channel Steps	5,4.15 cm 10, 1 95 ft ft ft ft 11, 12 cm 100 cm	150	5,425,630,15 ( 2,425,630,16 2,51,62,66(a	let.	5 (35 0)210 C 15 (6) (6.1)2 (80) (8.3)3 (8)(1)3	25	Sept of the		5 6 25 to 25 30, 15 87 W/F		\$ 10 (EE 15 8 (8.5189)	5 m 125 fs 20,35 % 1556	e.	51 % 95 KM		5 to 8.5 % 10 % 11 kg	di
Frequency Stabilly	alfam 114 a a Mark II	FI 6+870	ing an eliterati	PC m+ BYT	中之年 : mb.F % 전2 (200	FE 8+80°C	25 m (Mu) dispressable et les 1821, d	arch serio	22年 東京市 市場の決議場 17年 日本	27-in (17%)	skym plan a mys ran a vera	հասր, անչ ≂չես	-EASIe +6FT()	45 pm	90° 6=80°Q	भूषा । भूषा । १९५१	AVEN-ETY
Supply Voltage	Remark (CAR) Regard Sweet Operating (CAR) Regards forced	arver,	Romadin S. P. No. Reports Shard Spensing 112 - 114 Reports Shard	in liquin beed -8.000; Earths "U (18.000;		Agenced 10 8 5 10. Angulon Chause Especiatry (TC) = 15 Angulon Chause		Invertible Ingelie (Acad Cymeny TU / M.S.4.05, Ingelie Goad		Anglicati Aparteol Serse U-1913 Aparteol	Agreed 17 p V 20 Auguste Chessel Operator (FLV) / A Happing Count		Seption State Seption State Seption State Seption State Seption Septio		kpord 193 V l http://wideosi Esenting TV/ - Mod to Count		
Current Consumption	19 A Planning III A FED IN NORTH IE A FED, ASSEMBLE IE A FED, ASSEMBLE	3 M 53 E	15 A Percent 15 A			BBA flower, FBA TA 65 Wi TA BOWL GA FAIR		B S A Phones できている Ai G A Th Ail 4 A A Ail		AN A Bessell SEA FOLMS SEA FOLM	II 5-A (Parcenia II (SA 17), 10 A Mail 150 Mil II A - CA 15 Mile 45 Mil III (SA 150 Mile 45 Mil		Conference Explicit of Mills Total (15 Mills And Mills Total (15 Mills And M		D. A Bestel Bilder Bilder Bilder Bilder Bilder Bilder		
Орегайор Теттретабие	-4"1 no = 1410 -2010 no = 60		-4°F to = 140°F, -20°C to = 00°C		-4"F10 + 140 (-20"0 to = 6:		-0"F to = 500"F -20"C to = 60"C		-4"F In + "40"F -20"C Ip + 40"II		575 3 - 677 27 2 - 677	-4"} is + 540"} -20"C is + 60"C		-4"F to + 160"F -20"C to + 60"C		-4% to = 140% -20% to = 60%	
Register (55)*/15*/16* \$40* of the host \$40* of the host Dispose State (All Methol) \$40* of the host host \$40* of the host host \$40* of the host host		r r r	5,5's 15" 16.5' SE 16's 15 has with least front \$10 for with Secretains' Facilities (15" A 15" A" 2" 140 do 25 has with seeds		6,71 x 1,71 x 5,71 O55 a 42 x N49 Smart eVe loredo and FAM		6.1° x 1,4° x 5.2° (155 x 42 y; 145 5.mm) w/g shaba san 5.4%		6,71 a 1,71 a 5,71 (195 v 67 v 145,5mm) este kinete angri 6,91		CACHAN SCALL SAM PERSON SINCEL	5,5" (1,6"); (140 c 41.5 ( (140) inva 4		6,11 x 1,71 x (155 y 42 x Will knebs s	145.5mm)	6,914 f.Dr ped a 60 v pwo kaob	
Weight	7,64 lie 1,24 pm² Cara ant Caracillo Costal C		245 lb 2 / Ng mô Rado uni Populações		2,86 <b>b</b> ) (1,9b)	ģ	2,86 to 0,5	hegi)	2,96 h) (7,1	921	2.2 bo/1 kg	2.2 <b>b</b> n (1 kg	0	2,86 Ba (1,5	S kg).	4.2 kg (1,8	kpl
Transmiller														_			
RF Power Output	50/20/ 0V	*	NO/20/3 W		50/20/1 W		65/30/5V	4	65/25/64	y	は(言)で八十 であるからいと が、さんとうない ない様々。	<ul><li>(4) (2) (2) (4) (4)</li><li>(5) (2) (4) (4) (4)</li><li>(6) (2) (4) (4) (4)</li><li>(7) (4) (4) (4)</li><li>(8) (4) (4) (4)</li><li>(9) (2) (4) (4) (4)</li><li>(9) (4) (4)</li><li></li></ul>		65/30/6	W	10/36/10	1/9 W
Spurious Emission	II kur 10 di tala	7	I har E) (B tale		M, brand F. M & Braham		K, hed St di lakes	M herrord mbe M berellich John MS M	ic bud (Cell Julius	le levested dis- palme	Albert 15 di tele 1984 p. ir hari 19 di minori	Albur Azetari	h.	NP BI	M heartach pales M heartach pales (15 M)	A hardele	h
Microphone Impedance	235		210		247		2 60		2 1417.		2 40	2 k(7		7.95)		5 +57	
Genelver																	
Sensitivity  Wessurpointed Mechani AP Mace 10 db SN  N Mace 10 db Nest  This alman BPD No	Lights our grantfille of also rects the least of language Lower and	en PAG en PAG Start Developed Start PAG Start Developed Start Develop	31 m (20 m) (2 m	LEAN y - Mar y - Ma	25分分 社会企业的 社员中心公司的基本 化工业 计分词的基本 证明中 17 中于27	CHAPA TRANSPORTATION ASSESSMENT OF THE PROPERTY OF THE PROPERT	E.J. A. Fils house D.Zz. yz (Open)		ES PORT		សូមវិថ	and File		EZH (BASSA RZI ya Felinik		ga ya Thi	
Selectivity	等等。据《3·05/0 次据》,数据 3 等于2 等 数金		등(장/-19)(S) (무선/-19)(S) (무선/-19)(S)		情報://(ide) ( - 68) ( - 66) ( ) - 68) ( - 66)	712	Den Albert Hein Albert Den Albert	ı laı	をおりがら 19世1日の出 19世4日年で	10	のできる時 は他行を他 利用を知り18	(1887/1882) (1887-1888) (1898年1883)	10	2 do ) 31 do 66 de 142 do 1 de 142 do 10	- 100	Control of the Contro	n. 117
AF Output.	M 10 ( III fama) : E W 0 4 ( III I 13 Y P 13 8 III ( Islema)	Speaker 1740	phropoderus pero a charman pero a charman pero a charman	Tito	Se let dates!	ant.	Mann Danger	2 120	10 1LD 11	a (E)	4 pag	10 tra1)	10	10 HAY	* III	@12.FE	110

# Digital Repeaters

	, C4FV	I/FM Dual Band		C4FM/FM Dual Band				
	DN-2X	DR-2XE		DR-2X	DN-ZXE			
General			Transmitter					
Frequency Randon	144 - 146 MHz	144- WE MH2	RF Pawer Output S0/25/5 W					
Industria condes	450 - 440 MHz	\$30 - 440 MHz	Madulation Type	FID, F2EL F3F, Versetile Resettance Moduleton F7W: 4F8X (E4FX)				
emovan Type	FTD_F3D, FSF_F7W		Spurious Emission	AT Navi 60 48 Selow				
Frequency Stability	±2.5 ppm (-4°F to + 340°F, -20°C to + 60°	To)	Receiver					
Artmra Importance	50 0		Circuit Type	Spuille cerversion super-halarginne				
Supply Valtage	AS IOH - 240 Y DO TO 115 # Y. Regulars graces	DC 15,7+15,8 V, negative great in	hitermediate Frequencies	1nt: 47.25 Miss, 2nd: 460 disc				
As courts a Vice a court as	-4°F ia + 140°F   +20°C ia + 60°C)	-4"F to = 131"F5 70"C 16 + 55"C1	Resolver Sansithety	0.5 aV (Dignal 2 m/70 cm) RER 1% 0.2 px (FM 2 m/70 cm) 11 dB 3NAD				
Operating Temperature	113101-01-01113	1. A = = 1. Ske and = se al	Adjacent Channel Selectivity	Rotter from 65 db TVP (2) abt offset				
Dimensions (WaltaD)	19" x 3.5" x 15" (48) x 88 x 380 mm)		Salectivity	-M 10 kH2/35 kH2 /-6 dB / -60 dB				
Weight imperac.)	20.72 bs (9.4 kg)	18,52 to [8.4 kg]	hteresakulation	Baltos than 65 dB TYP (25/40 kHz offset)				
			Audio Oulpul	4 W 484 G for 10 % (III) K9 18.6 V) Internal Speaker				

http://www.yaesu.com

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